



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: TAY 611-8C
UNIQUE ID NUMBER: 11RR048
COMBUSTOR: Tubular
ENGINE TYPE: MTF

BYPASS RATIO: 3.3
PRESSURE RATIO (π_{00}): 15.9
RATED THRUST (F_{00}) (kN): 61.6

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	5.2	72.4	43.0	5.2
AS % OF ORIGINAL LIMIT	26.6	61.3	59.9	19.1
AS % OF CAEP/2 LIMIT (NO _x)			74.9	
AS % OF CAEP/4 LIMIT (NO _x)			85.7	
AS % OF CAEP/6 LIMIT (NO _x)			91.2	
AS % OF CAEP/8 LIMIT (NO _x)			105.1	

DATA STATUS

- PRE-REGULATION
x CERTIFICATION
x REVISED (SEE REMARKS)

TEST ENGINE STATUS

- NEWLY MANUFACTURED ENGINES
x DEDICATED ENGINES TO PRODUCTION STANDARD
- OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
(ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)

x OUT OF PRODUCTION (DATE: -)
- OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	HC	CO	NO _x	SMOKE NUMBER
TAKE-OFF	100	0.7	0.731	0.03	0.50	19.30	4.4
CLIMB OUT	85	2.2	0.604	0.05	0.95	15.40	3.5
APPROACH	30	4.0	0.215	0.65	2.89	5.31	0.5
IDLE	7	26.0	0.102	1.49	24.40	2.53	0.2
LTO TOTAL FUEL (kg) or EMISSIONS (g)			321	275	4123	2500	-
NUMBER OF ENGINES				3	3	3	3
NUMBER OF TESTS				5	5	5	5
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				4.5	66.9	40.6	4.7
SIGMA (D _p /F ₀₀ in g/kN, or SN)				1.3	11.5	0.9	0.6
RANGE (D _p /F ₀₀ in g/kN, or SN)				2.57-5.62	59.55-82.67	39.5-41.7	3.67-5.2

ACCESSORY LOADS

POWER EXTRACTION 0 (kW)
STAGE BLEED 0 (% CORE FLOW)

AT - POWER SETTINGS
AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	99.9-102
TEMPERATURE (K)	281.4-292.5
ABS HUMIDITY (kg/kg)	0.00475-0.00587

FUEL

SPEC	
H/C	1.95
AROM (%)	17.1

MANUFACTURER: Rolls-Royce plc
TEST ORGANIZATION: Rolls-Royce
TEST LOCATION: Dahlewitz
TEST DATES: 22/01/2002-08/05/2011

NO_x REGULATION PARAGRAPH

	2.3.2 c) (CAEP/4)
x	2.3.2 d) (CAEP/6)
	2.3.2 e) (CAEP/8)

REMARKS

1. Certification Report O-TR0546/11
2. Certification in accordance with Part III, Chapter 2, of Amendment 6 of ICAO Annex 16 Vol. II.
3. NO_x levels in accordance with Part III, Chapter 2, 2.3.2 d) (CAEP/6)

Compliance with Fuel Venting requirements:

- ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)